

## ABSTRACT OF THE DISCLOSURE

Various embodiments of mechanisms for bridging data representation language  
5 messaging based distributed computing environments to foreign environments are  
described. A device proxy may implement a device protocol and a distributed computing  
environment protocol to bridge devices into the distributed computing environment. A  
client proxy is described that implements the distributed computing environment protocol  
on behalf of a foreign client such as a browser. A service proxy is described that  
10 implements the distributed computing environment protocol on behalf of a foreign  
service. A transport proxy is described that routes data representation language messages  
between two different message transports. A distributed computing environment client  
proxy may allow distributed computing environment clients to access Remote Method  
Invocation (RMI) -based environment services. An RMI-based environment client proxy  
15 may allow RMI-based environment clients to access distributed computing environment  
services.